

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listing of claims in the application:

LISTING OF CLAIMS:

Claims 1 - 13 (Cancelled).

Claim 14 (Currently amended) A method for a ~~said~~ USB controlling apparatus including at least one connection port having a set of USB data lines for connecting to a USB device or a USB cable for data transfer, a path switch connected to a host controller, a device function circuit and said USB data lines, a power switch having one end connected to a power line on a motherboard and another end connected to a power adapting line, and a series connection of a pull-up resistor and a pull-up switch connected between said power adapting line and one of said set of USB data lines, said method comprising following steps:

setting a host function mode as a default operation mode of said USB controlling apparatus, setting said host function mode includes connecting said data lines to said host controller by said path switch and turning on said power switch and turning off said pull-up switch;

detecting whether said connection port is being used by said host controller;

when said connection port is being used by said host controller, said USB controlling apparatus is operated in said host function mode;

when said connection port is not being used by said host controller, said USB controlling apparatus is switched to operate in a device function mode, operating in said device function mode includes connecting said data lines to said device function circuit by said path switch and turning off said power switch and turning on said pull-up switch;

providing a predetermined waiting time;

detecting whether a connection is established through said connection port for said USB controlling apparatus;

when said connection is established through said connection port, said USB controlling apparatus is operated in said device function mode; and,

when said connection is not established through said connection port, examining whether said connection is established within said predetermined waiting time for reconfiguration of said connection port responsive thereto.

Claims 15 - 17 (Cancelled).

Claim 18 (Currently amended) The method as in claim 14 ~~17~~, further comprising following steps:

operating said USB controlling apparatus in said device function mode if said connection is established within said predetermined waiting time;

else switching said USB controlling apparatus to said host function mode if said connection is not established within said predetermined waiting time.

Claim 19 (Currently amended) ~~The~~ A method for a USB controlling apparatus including at least one connection port having a set of USB data lines for connecting to a USB device or a USB cable for data transfer, a path switch connected to a host controller, a device function circuit and said USB data lines, a power switch having one end connected to a power line on a motherboard and another end connected to a power adapting line, and a series connection of a pull-up resistor and a pull-up switch connected between said power adapting line and one of said set of USB data lines, said method as in claim 18, further comprising following steps:

setting a host function mode as a default operation mode of said USB controlling apparatus, setting said host function mode includes connecting said data lines to said host controller by said path switch and turning on said power switch and turning off said pull-up switch;

detecting whether said connection port is being used by said host controller;

when said connection port is being used by said host controller, said USB controlling apparatus is operated in said host function mode;

when said connection port is not being used by said host controller, said USB controlling apparatus is switched to operate in a device function mode, operating in said device function mode includes connecting said data lines to said device function circuit by said path switch and turning off said power switch and turning on said pull-up switch;

providing a predetermined waiting time;

detecting whether a connection is established for said USB controlling apparatus;

when said connection is established, said USB controlling apparatus is operated in said device function mode;

when said connection is not established, examining whether said connection is established within said predetermined waiting time;

operating said USB controlling apparatus in said device function mode if said connection is established within said predetermined waiting time;

else switching said USB controlling apparatus to said host function mode if said connection is not established within said predetermined waiting time;

detecting whether a connection is established for said USB controlling apparatus;

if true, said USB controlling apparatus is operated in said host function mode;

else examining whether said connection is established within said predetermined waiting time;

operating said USB controlling apparatus in said host function mode when said connection is established within said predetermined waiting time;

switching said USB controlling apparatus to said device function mode when said connection is not established within said predetermined waiting time.

Claim 20 (Currently amended) The method as in claim 14 ~~17~~, wherein said predetermined waiting time is a user-defined value.